

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
6362-9383DSERIAL NO.
08 935,105LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
DAGGETT *et al.*FILING DATE
September 29, 1997GROUP
Unassigned

JCS93 U.S. PTO
 10/038337
 01/04/02

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
2	A	4	8	3	7	1	4	8	6/6/89	Cregg	435	172.3	10/30/84
2	B	4	8	5	5	2	3	1	8/8/89	Stroman <i>et al.</i>	435	63	9/25/85
2	C	4	8	8	2	2	7	9	11/21/89	Cregg	435	68	10/25/85
2	D	4	9	2	9	5	5	5	5/29/90	Cregg <i>et al.</i>	435	172.3	10/19/87
2	E	5	0	2	4	9	3	9	6/18/91	Gorman	435	69.1	9/25/87
2	F	5	0	2	8	7	0	7	7/2/91	Nichols <i>et al.</i>	546	156	11/20/89
2	G	5	2	0	2	2	5	7	4/13/93	Heinemann <i>et al.</i>	435	252.3	6/21/91
2	H	5	4	0	1	6	2	9	3/28/95	Harpold <i>et al.</i>	435	6	8/7/90
2	I	5	4	0	3	4	8	4	4/4/95	Ladner <i>et al.</i>	435	235.1	1/26/93
2	J	5	4	3	6	1	2	8	7/25/95	Harpold <i>et al.</i>	435	6	1/27/93
1													

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation NO YES	
2	K	0	6	0	0	2	7	8	6/8/94	EP A2	..	..
2	L	0	6	0	6	7	3	4	7/20/94	EP	..	..
2	M	0	6	7	4	0	0	3	9/27/95	EP	..	..
2	N	2	2	9	1	6	4	7	1/31/96	GB	..	..
2	O	6	0	1	4	7	8	3	1/25/94	JP	..	..
2	P	9	1	0	6	6	4	8	5/16/91	PCT	..	..
2	Q	9	2	2	3	7	6	9	11/12/92	GB	..	..
2	R	9	3	0	7	0	2	6	4/2/93	GB		
2	S	9	3	1	3	4	2	3	7/8/93	PCT		
2	T	9	3	2	3	5	3	6	11/25/93	PCT		
2	U	9	3	2	4	6	2	9	12/9/93	PCT		

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John W.

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													NO	YES
<i>h</i>	V	9	3	2	5	6	7	9	12/23/93	PCT	--	--	*	
	W	9	4	0	1	0	9	4	1/20/94	PCT	--	--	*	
<i>h</i>	X	9	4	0	4	6	9	8	3/3/94	PCT	--	--	*	
	Y	9	4	0	6	4	2	8	3/31/94	PCT	--	--		
<i>h</i>	Z	9	4	1	1	5	0	1	5/26/94	PCT	--	--		
	AA	9	5	2	6	4	0	1	10/5/95	PCT	--	--	*	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>h</i>	AB	Abbott, NMDA receptor cloned, <i>Trends Pharmacol. Sci.</i> 12:449 (1991)
<i>h</i>	AC	Abbott, NMDA receptor subunit cloned, <i>Trends Pharmacol. Sci.</i> 12:334 (1991)
<i>h</i>	AD	Abe <i>et al.</i> , Molecular characterization of a novel metabotropic glutamate receptor mGluR5 coupled to inositol phosphate/Ca ²⁺ signal transduction, <i>J. Biol. Chem.</i> 267:13361-13368 (1992)
<i>h</i>	AE	Albin <i>et al.</i> , Abnormalities of striatal projection neurons and N-methyl-D-aspartate receptors in presymptomatic Huntington's Disease, <i>N. Engl. J. Med.</i> 322(18):1293-1298 (1990)
<i>h</i>	AF	Anantharam <i>et al.</i> , Combinatorial RNA splicing alters the surface charge on the NMDA receptor, <i>FEBS Lett.</i> 305(1):27-30 (1992)
<i>h</i>	AG	Bahouth <i>et al.</i> , Immunological approaches for probing receptor structure and function, <i>Trends Pharmacol. Sci.</i> 12:338-343 (1991)
<i>h</i>	AH	Barnard, Will the real NMDA receptor please stand up? <i>Trends Pharmacol. Sci.</i> 13:11-12 (1992)
<i>h</i>	AI	Beal, Mechanisms of excitotoxicity in neurologic diseases, <i>FASEB J.</i> 6:3338-3344 (1992)
<i>h</i>	AJ	Ben-Ari <i>et al.</i> , Protein kinase C modulation of NMDA currents: an important link for LTP induction, <i>Trends Neurosci.</i> 15:333-339 (1992)
<i>h</i>	AK	Black <i>et al.</i> , N-methyl-D-aspartate- or glutamate-mediated toxicity in cultured rat cortical rat cortical neurons is antagonized by FPL 15896AR, <i>J. Neurochem.</i> 65:2170-2177 (1995)

EXAMINER

John C.

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11-5-01

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	FILING DATE September 29, 1997	GROUP Unassigned

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

2	AL	Bottaro <i>et al.</i> , Identification of the hepatocyte growth factor receptor as the <i>c-met</i> proto-oncogene product, <i>Science</i> 251:802-804 (1991)
2	AM	Bradford, A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding, <i>Anal. Biochem.</i> 72:248 (1976)
2	AN	Bristow <i>et al.</i> , The glycine/NMDA receptor antagonist R-(+)-HA-966, blocks activation of the mesolimbic dopaminergic system induced by phencyclidine and dizcipine (MK-801) in rodents, <i>Br. J. Pharmacol.</i> 108:1156-1163 (1993)
2	AO	Choi, Calcium-mediated neurotoxicity: Relationship to specific channel types and role in ischemic damage, <i>Trends Neurosci.</i> 11(10):465-469 (1988)
2	AP	Choi, Glutamate neurotoxicity and diseases of the nervous system, <i>Neuron</i> 1:623-634 (1988)
2	AQ	Ciba-Geigy Unveils Research Agreement with SIBIA of U.S., <i>The Wall Street Journal</i> (September 17, 1992)
2	AR	Coyle <i>et al.</i> , Oxidative stress, glutamate, and neurodegenerative disorders, <i>Science</i> 262:689-695 (1993)
2	AS	Daggett <i>et al.</i> , Cloning and functional characterization of three splice variants of the human NMDAR1 receptor, <i>Biophys. J.</i> , 36(2):447 (1994)
2	AT	Dascal, The use of <i>Xenopus</i> oocytes for the study of ion channels, <i>CRC Critical Reviews in Biochemistry</i> 22(4):317-387 (1987)
2	AU	Donnelly and Pallotta, Single-channel currents from diethylpyrocarbonate-modified NMDA receptors in cultured rat brain cortical neurons, <i>J. Gen. Physiol.</i> 105:837-859 (1995)
2	AV	Durand <i>et al.</i> , Cloning of an apparent splice variant of the rat <i>N</i> -methyl-D-aspartate receptor NMDAR1 with altered sensitivity to polyamines and activators of protein kinase C, <i>Proc. Natl. Acad. Sci. USA</i> 89:9359-9363 (1992)
2	AW	Egebjerg <i>et al.</i> , Intron sequence directs RNA editing of the glutamate receptor subunit GluR2 coding sequence, <i>Proc. Natl. Acad. Sci. USA</i> 91:10270-10274 (1994)
2	AX	Felder <i>et al.</i> , A transfected m1 muscarinic acetylcholine receptor stimulates adenylate cyclase via phosphatidylinositol hydrolysis, <i>J. Biol. Chem.</i> 264:20356-20362 (1989)
2	AY	Fisher and Aronson, Characterization of the cDNA and genomic sequence of a G protein γ subunit (γ_s), <i>Mol. Cell. Bio.</i> 12:1585 (1992)
2	AZ	Foldes <i>et al.</i> , Cloning and sequence analysis of cDNAs encoding human hippocampus <i>N</i> -methyl-D-aspartate receptor subunits: Evidence for alternative splicing, <i>Gene</i> 131:293-298 (1993)

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John U

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1	BA	Gautam <i>et al.</i> , A G protein gamma subunit shares homology with <i>ras</i> proteins, <i>Science</i> 244:971 (1989)
1	BB	Gautam <i>et al.</i> , G protein diversity is increased by associations with a variety of γ subunits, <i>Proc. Natl. Acad. Sci. USA</i> 87:7973 (1990)
2	BC	Gereau and Conn, Multiple presynaptic metabotropic glutamate receptors modulate excitatory and inhibitory synaptic transmission in hippocampal area CA1, <i>J. Neurosci</i> 15(10):6879-6889 (1995)
2	BD	Greenamyre <i>et al.</i> , Synaptic localization of striatal NMDA, quisqualate and kainate receptors, <i>Neurosci. Lett.</i> 101:133-137 (1989)
2	BE	Grimwood <i>et al.</i> , Interactions between the glutamate and glycine recognition sites of the <i>N</i> -methyl-D-aspartate receptor from rat brain, as revealed from radioligand binding studies, <i>J. Neurochem.</i> 60:1729-1738 (1993)
2	BF	Gubler <i>et al.</i> , A simple and very efficient method for generating cDNA libraries, <i>Gene</i> 25:263-269 (1983)
1	BG	Gunasekar <i>et al.</i> , NMDA receptor activation produces concurrent generation of nitric oxide and reactive oxygen species: Implication for cell death, <i>J. Neurochem.</i> 65:2016-2021 (1995)
1	BH	Gundersen <i>et al.</i> , Glutamate and kainate receptors induced by rat brain messenger RNA in <i>Xenopus</i> oocytes, <i>Proc. R. Soc. London Ser.</i> 221:127 (1984)
2	BI	Hess <i>et al.</i> , Cloning, functional expression, and pharmacological characterization of human NMDAR1/NMDAR2 heteromeric receptors, <i>Biophys J.</i> , 36(2):446 (1994) (abstract and poster)
2	BJ	Hess <i>et al.</i> , Biophysical properties of human NMDA receptors stably expressed in mammalian cells, <i>Soc. Neurosci. Abstr.</i> 21:1-3 (1995)
2	BK	Hoffman, NMDA receptor cloned — — twice! <i>Science</i> 254:801-802 (1991)
1	BL	Hollman <i>et al.</i> , Zinc potentiates agonist-induced currents at certain splice variants of the NMDA receptor, <i>Neuron</i> 10:943-954 (1993)
1	BM	Hollman <i>et al.</i> , Cloned glutamate receptors, <i>Annu. Rev. Neurosci.</i> 17:31-108 (1994)
2	BN	Hurley <i>et al.</i> , Isolation and characterization of a cDNA clone for the γ subunit of bovine retinal transducin, <i>Proc. Natl. Acad. Sci. USA</i> 81:6948 (1984)
2	BO	Ishii <i>et al.</i> , Molecular characterization of the family of the <i>N</i> -methyl-D-aspartate receptor subunits, <i>J. Biol. Chem.</i> 268(4):2836-2843 (1993)

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2	BP	Ito <i>et al.</i> , Characterization of prostaglandin E ₂ -induced Ca ²⁺ mobilization in single bovine adrenal chromaffin cells by digital image microscopy, <i>J. Neurochem.</i> 56:531-540 (1991)
~	BQ	Jones <i>et al.</i> , Characterization of the binding of radioligands to the <i>N</i> -methyl-D-aspartate, phencyclidine, and glycine receptors in buffy coat membranes, <i>J. Pharmacol. Meth.</i> 21:161 (1989)
2	BR	Kantak <i>et al.</i> , Effects of <i>N</i> -methyl-D-aspartate antagonists in rats discriminating different doses of cocaine: Comparisons with direct and indirect dopamine agonists, <i>J. Pharmacol. Exper. Therap.</i> 274:657-665 (1995)
2	BS	Karp <i>et al.</i> , Molecular cloning and chromosomal localization of the key subunit of the human <i>N</i> -methyl-D-aspartate receptor, <i>J. Biol. Chem.</i> 268:3728-3733 (1993)
~	BT	Kemp <i>et al.</i> , Protein kinase recognition sequence motifs, <i>Trends Biochem. Sci.</i> 15:342-346 (1990)
2	BU	Kishimoto <i>et al.</i> Studies on the phosphorylation of myelin basic protein by protein kinase C and adenosine 3':5'-monophosphate-dependent protein kinase, <i>J. Biol. Chem.</i> 260:12492-12499 (1985)
2	BV	Kisselev <i>et al.</i> , Receptor-G protein coupling is established by a conformational switch in the $\beta\gamma$ complex, <i>Proc. Natl. Acad. Sci. USA</i> 92:9102-9106 (1995)
2	BW	Kleuss <i>et al.</i> , Selectivity in signal transduction determined by γ subunits of heterotrimeric G proteins, <i>Science</i> 259:832 (1993)
~	BX	Köhr <i>et al.</i> , NMDA receptor Channels: Subunit-specific potentiation by reducing agents, <i>Neuron</i> 12:1031-1040 (1994)
2	BY	Kozak, Structural features in eukaryotic mRNAs that modulate the initiation of translation, <i>J. Biol. Chem.</i> 266:19867-19870 (1991)
2	BZ	Krieg and Melton, Functional messenger RNAs are produced by SP6 <i>in vitro</i> transcription of cloned cDNAs, <i>Nucleic Acids Research</i> 12:7057-7070 (1984)
2	CA	Kumar <i>et al.</i> , Cloning of cDNA for the glutamate-binding subunit of an NMDA receptor complex, <i>Nature</i> 354:70-73 (1991)
2	CB	Kutsuwada <i>et al.</i> , Molecular diversity of the NMDA receptor channel, <i>Nature</i> 358:36-41 (1992)
~	CC	Kyte and Doolittle, A simple method for displaying the hydropathic character of a protein, <i>J. Mol. Biol.</i> 157:105 (1982)
~	CD	Landwehrmeyer <i>et al.</i> , NMDA receptor subunit mRNA expression by projection neurons and interneurons in rat striatum, <i>J. Neurosci.</i> 15(7): 5297-5307 (1995)

EXAMINER

John L. L.

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2	CE	Le Bourdellès <i>et al.</i> , Cloning, functional coexpression, and pharmacological characterisation of human cDNAs encoding NMDA receptor NR1 and NR2A subunits, <i>J. Neurochem.</i> 62:2091-2098 (1994)
2	CF	Linder and Gilman, G proteins, <i>Scientific American</i> 267:56-65 (1992)
2	CG	Liu <i>et al.</i> , Mutational analysis of the relative orientation of transmembrane helices I and VII in G protein-coupled receptors, <i>J. Biol. Chem.</i> 270(3):19532-19539 (1995)
2	CH	Lynch <i>et al.</i> , Pharmacological characterization of heterodimeric NMDA receptors of NR1a and 2B subunits: Differences with receptors formed from NR 1a and 2A, <i>J. Neurochem.</i> 64:1462-1468 (1995)
2	CI	Masayuki, Human mRNA for key subunit of the N-methyl-D-aspartate receptor, DDBJ database (7/20/93)
2	CJ	Masu <i>et al.</i> , Sequence and expression of a metabotropic glutamate receptor, <i>Nature</i> 349:760-765 (1991)
2	CK	Matsui <i>et al.</i> , Functional comparison of D-serine and glycine in rodents: the effect on cloned NMDA receptors and the extracellular concentration, <i>J. Neurochemistry</i> 65:454-458 (1995)
2	CL	Mayer, NMDA receptors cloned at last, <i>Nature</i> 354:16-17 (1991)
2	CM	Meguro <i>et al.</i> , Functional characterization of a heteromeric NMDA receptor channel expressed from cloned cDNAs, <i>Nature</i> 357:70-74 (1992)
2	CN	Meldrum, Possible therapeutic applications of antagonists of excitatory amino acid neurotransmitters, <i>Clin. Sci.</i> 68:113-122 (1985)
2	CO	Meldrum <i>et al.</i> , Excitatory amino acid neurotoxicity and neurodegenerative disease, <i>Trends Pharmacol. Sci.</i> 11:379-387 (1990)
2	CP	Minakami <i>et al.</i> , The expression of two splice variants of metabotropic glutamate receptor subtype 5 in the rat brain and neuronal cells during development, <i>J. Neurochem.</i> 65:1536-1542 (1995)
2	CQ	Monaghan <i>et al.</i> , The excitory amino acid receptors: Their classes, pharmacology, and distinct properties in the function of the central nervous system, <i>Ann. Rev. Pharmacol. Toxicol.</i> 29:365-402 (1980)
2	CR	Monyer <i>et al.</i> , Heteromeric NMDA receptors: Molecular and functional distinction of subtypes, <i>Science</i> 256:1217-1221 (1992)
2	CS	Monyer <i>et al.</i> , Developmental and regional expression in the rat brain and functional properties of four NMDA receptors, <i>Neuron</i> 12:529-540 (1994)

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✓	CT	Moriyoshi <i>et al.</i> , Molecular cloning and characterization of the rat NMDA receptor, <i>Nature</i> 354:31-37 (1991)
✓	CU	Nakajima <i>et al.</i> , Direct linkage of three tachykinin receptors to stimulation of both phosphatidylinositol hydrolysis and cyclic AMP cascades in transfected Chinese hamster ovary cells, <i>J. Biol. Chem.</i> 267:2437-2442 (1992)
✓	CV	Nakanishi, Molecular diversity of glutamate receptors and implications for brain function, <i>Science</i> 258:597-602 (1992)
✓	CW	Nicoletti <i>et al.</i> , The activation of inositol phospholipid metabolism as a signal-transducing system for excitory amino acids in primary cultures of cerebellar granule cells, <i>J. Neurosci.</i> 6:1905 (1986)
✓	CX	SIBIA/Ciba-Geigy agreement, <i>UCSD Connect</i> (September 16, 1992)
✓	CY	Ogita <i>et al.</i> , A possible role of glutathione as an endogenous agonist at the <i>N</i> -methyl-D-aspartate recognition domain in rat brain, <i>J. Neurochem.</i> 64:1088-1096 (1995)
✓	CZ	Other News to Note, <i>BioWorld Today</i> , 6 (April 15, 1994)
✓	DA	O'Connor <i>et al.</i> , Tetanically induced LTP involves a similar increase in the AMPA and NMDA receptor components of the excitory postsynaptic current: Investigations of the involvement of mGlu receptors, <i>J. Neurosci.</i> 15(3):2013-2020 (1995)
✓		Paoletti and Ascher, Mechanosensitivity of NMDA receptors in cultured mouse central neurons, <i>Neuron</i> 13:645-655 (1995)
✓	DB	Pin <i>et al.</i> , Alternative splicing generates metabotropic glutamate receptors inducing different patterns of calcium release in <i>Xenopus</i> oocytes, <i>Neurobiology</i> 89:10331-10335 (1992)
✓	DC	Planells-Cases <i>et al.</i> , Molecular cloning, functional expression, and pharmacological characterization of an <i>N</i> -methyl-D-aspartate receptor subunit from human brain, <i>Proc. Natl. Acad. Sci. USA</i> 90:5057-5061 (1993)
✓	DD	Potter, Sibia to collaborate with Ciba-Geigy, <i>BioWorld Today</i> 3:1 (Sep. 17, 1992)
✓	DE	Reeck <i>et al.</i> , "Homology" in proteins and nucleic acids: a terminology muddle and a way out of it, <i>Cell</i> 50: 667 (1987)
✓	DF	Rueter <i>et al.</i> , Glutamate receptor RNA editing <i>in vitro</i> by enzymatic conversion of adenosine to inosine, <i>Science</i> 267:1491-1494 (1995)
✓	DG	Sakurada <i>et al.</i> , Alteration of Ca ²⁺ permeability and sensitivity to Mg ²⁺ and channel blockers by a single amino acid substitution in the <i>N</i> -methyl-D-aspartate, <i>J. Biol. Chem.</i> 268(1):410-415 (1993)

EXAMINER

John L.


















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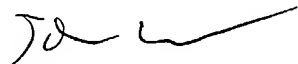
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	DH	Sambrook <i>et al.</i> , <i>Molecular Cloning. A Laboratory Manual</i> , 2d Ed., Cold Spring Harbor Laboratory Press (1989)
	DI	Sanes <i>et al.</i> , Use of a recombinant retrovirus to study post-implantation cell lineage in mouse embryos, <i>EMBO J.</i> 5(12):3133-3142 (1986)
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	DU	Stillman <i>et al.</i> , Replication and supercoiling of simian virus 40DNA in cell extracts from human cells, <i>Mol. Cell. Biol.</i> 5:2051-2060 (1985)
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













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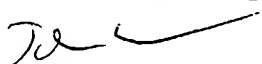
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FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 6362-9383D	SERIAL NO 08/935,105
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT DAGGETT <i>et al.</i>	
	FILING DATE September 29, 1997	GROUP Unassigned

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	DY	Sugiyama <i>et al.</i> , A new type of glutamate receptor linked to inositol phospholipid metabolism, <i>Nature</i> 325:531 (1987)
	DZ	Sullivan <i>et al.</i> , Identification of two cysteine residues that are required for redox modulation of the NMDA subtype of glutamate receptor, <i>Neuron</i> 13:929-936 (1994)
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	EB	Tamir <i>et al.</i> , G-protein $\beta\gamma$ forms: Identity of β and diversity of γ subunits, <i>Biochemistry</i> 30:3929 (1991)
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	EH	Vornov <i>et al.</i> , Enhancement of NMDA receptor-mediated neurotoxicity in the hippocampal slice by depolarization and ischemia, <i>Brain Res.</i> 555:99-106 (1991)
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08/935,105LIST OF PATENTS AND PUBLICATIONS FOR
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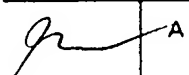
U.S. PATENT DOCUMENTS

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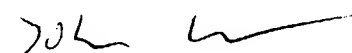
FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	A	Sun <i>et al.</i> , Molecular cloning, chromosomal mapping, and functional expression of human brain glutamate receptors, <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89:1443-1447 (1992)

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